

MASHUKOV, P.M.

Calculating the time of occurrence of first thin ice and sludge  
on rivers. Trudy Inst.mat.i mekh.AN Uz.SSR no.14:189-202 '55.  
(Ice on rivers, lakes, etc.) (MLRA 8:8)

*MASHUKOV, P.M.*

MASHUKOV, P.M.

Ice conditions on the Syr Darya River based on aerial surveys.  
Trudy Tashk.geofiz.obser.no.15:131-153 '57. (MIRA 10:11)  
(Syr Darya River--Ice on rivers, lakes, etc.)

MASHUKOV, Petr Mikhaylovich; SHUL'TS, V.L., doktor geogr. nauk, otvetstvennyy red.; GROSMA, P.V., red.; SOLOVETCHIK, A.A., tekhn. red.

[Analysis and forecasting of ice conditions on the Amu Darya]

Analiz i prognoz ledovykh yavlenii na Amu-Dar'e. Pod red. V.L.

Shul'tsa. Leningrad, Gidrometeor. izd-vo, 1958. 133 p.

(Amu Darya—Ice)

(MIRA 11:9)

AUTHOR: Mashukov, P. M. (in the table of contents: 50-58-5-10/20  
Mashurov)

TITLE: Two Basic Concepts of Hydrology (O dvukh osnovnykh ponyat-  
iyakh gidrologii)

PERIODICAL: Meteorologiya i Gidrologiya, 1958, Nr 5, pp 46-47 (USSR)

ABSTRACT: The author examines the use of technical terms: weather and climate and their analogues in hydrology. The weather is the physical state and the behavior of the atmosphere at a given time and in a certain place (small region). It consists of individual meteorological phenomena. The weather is characterized by individual qualitative and quantitative features which are called meteorological elements. In hydrology a corresponding word is missing which would correspond to the weather in meteorology. The state of a river consists of hydrological phenomena; it is characterized by a number of features which are called hydrological elements and which refer to individual moments of time or short periods of time. The weather as well as the state of a river are uninterruptedly variable with respect to time, whereas the climate or the regime of a river or its section possess a steadiness, a relative invariability. The

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Two Basic Concepts of Hydrology

50-58-5-10/20

properties of a river which he possesses and which distinguish him from other rivers form a regime of this river. But every steadiness is relative. The climate of an individual region and the regime of a river change, but so slowly that these two properties are considered as stable. In this light the expression "forecast of the regime of continental waters" ( a guide to the forecasting service - Nastavleniye po sluzhbe prognozov) is incorrect. Further technical terms are corrected accordingly. There are 2 references, which are Soviet.

1. Hydrology--Analysis
2. Inland waterways--Properties
3. Inland waterways--Climatic factors

Card 2/2

3(7)

AUTHOR: Mashukov, P. M.

SOV/50-59-7-16/20

TITLE: V. I. Korovin "Some Methods of Forecasting the Water Quantity of Rivers and Lakes in the Kazakhskaya SSR". Papers of the Kazakh Scientific Research Institute of Hydrometeorology, Issue 9, 1957 (V. I. Korovin "O nekotorykh priyemakh prognoza vodonosnosti rek i ozer Kazakhskoy SSR". Trudy Kazakhskogo nauchno-issledovatel'skogo gidrometeorologicheskogo instituta, vyp. 9. 1957 g.)

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 7, pp 51 - 53 (USSR)

ABSTRACT: This is a review of the paper by Korovin. The paper is carelessly written and hardly readable. Much of it is a guess. The author gives 4 suggestions for the method of setting up long-termed forecasts for the flow-off of the rivers in the Kazakhskaya SSR. These suggestions are discussed in detail, and their shortcomings and insufficiency of representation are pointed out. There is 1 figure.

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MASHUKOV, P.M.

~~Evaluating hydrological forecasts. Trudy TSIP no.94:71-78~~  
'59. (MIRA 12:8)

(Hydrology)

MASHUKOV, P.M.

Streamflow analysis and forecasting for rivers of the Surkhan-Darya  
and Kashka-Darya Basins during the growing season (April-September).

Trudy Sred.-Az. nauch.-issl. gidrometeor. inst. no.3:3-27 '60.

(MIRA 14:9)

(Surkhan-Darya Valley--Hydrology) (Kashka-Darya Valley--Hydrology)



MASHUKOV, P.M.

Generalization of local prognostic relationships with regard to  
time. Trudy Sred.-Az. nauch.-issl. gidrometeor. inst. no.3:37-44  
'60. (MIRA 14:9)

(Hydrology)

MASHUKOV, P.M.

Runoff classification and hydrograph computation. Trudy Sred.-Az.  
nauch.-issl. gidrometeor. inst. no. 3. 55-60 '60. (MIRA 14:9)  
(Hydrology)

LUKINA, N.K.; MASHUKOV, P.M.

Analysis of critical water levels in the Amu Darya River. Trudy  
Sred.-Az. nauch.-issl. gidrometeor. inst. no.3:61-64 '60.  
(MIRA 14:9)

(Amu Darya River--Hydrology)

S/167/60/000/003/004/004/XX  
A104/A126

AUTHOR: Mashukov, P. M.

TITLE: On some errors in literature on hydrologic forecasts

PERIODICAL: Izvestiya Akademii nauk UzSSR. Seriya tekhnicheskikh nauk,  
no. 3, 1960. 71 - 77

TEXT: The author discusses mathematical errors and other inaccuracies occurring in hydrological forecasts by the application of unsuitable calculation methods, i.e., intermediate connections, estimated "additions", etc. as are apparent in the paper by V. I. Korovin [Ref. 1: Trudy Kazakhskogo nauchno-issledovatel'skogo gidrometeorologicheskogo instituta, no. 9, Leningrad, 1957]. Fig. 1a and b show a typical example of such an error in the estimation of water consumption of Kirgizian rivers. The forecast method of the run-off was worked out only for the main river, the run-off of other rivers was determined according to its connections to the run-off of the main river. The error arose because intermediate connections were based on observed facts, whereas the forecast relied merely on calculations. The importance of symbols  $Q$  and  $\bar{Q}$  is stressed because the first designates

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S/167/60/000/003/004/004/XX  
A104/A126

On some errors in literature on...

the actual consumption and the second the amount of precipitation subjected to a mathematical function. The direct method as shown in Fig. 1c and corresponding equation

$$\tilde{Q}_B = F_1(x)? \quad (5)$$

is recommended. The danger of mathematical "additions" to data available is demonstrated by means of an article in the periodical "Meteorologiya i gidrologiya", 1957, no. 4 [Ref. 2: Parshin, V. N., Salov, M. S.]. The choice of coefficients proportional to the closeness of connections does not vouchsafe satisfactory results. The paper by V. N. Parshin [Ref. 3: Trudy Tsentral'nogo instituta prognozov, vo. 62, Moscow, 1957] is quoted as an example of mathematical incompleteness, i.e. failure to render mathematical findings suitable for survey and analysis. Instead of his numerous and complicated mathematical operations, the author suggests the use of simple graphs. Finally the author regrets the frequent use of ambiguous and inaccurate terminology. The "Sbornik opredeleniy osnovnykh gidrologicheskikh terminov i ponyatiy" ("Collection of definitions and basic hydrological terms and conceptions") [Ref. 4: Gidrometeoizdat, Leningrad, 1957]

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A104/A126

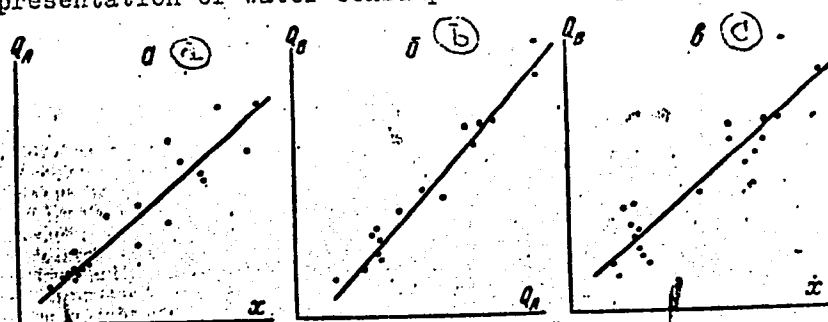
On some errors in literature on...

compiled by the Gosudarstvennyy gidrologicheskiy institut (State Hydrological Institute) is recommended for discussion on this subject. There are 4 figures and 5 Soviet-bloc references.

SUBMITTED: February 2, 1960

Figure 1:

Graphical representation of water consumption of Kirgizian rivers



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MASHUKOV, P.M.

Evaluation of hydrometeorological forecasts. Trudy Sred.-Az.  
nauch.-issl. gidrometeor. inst. no.3:138-156 '60. (MIRA 14:9)  
(Hydrology) (Meteorology)

MASHUKOV, P.M.

Sources of Central Asia rivers. Izv.Uzb.fil.Geog.ob-va 4:5-12  
'60. (MIRA 13:7)

(Soviet Central Asia--Rivers)



MASHUKOV, P.M.

Runoff separation in hydrograph computations. Meteor. i gidrol.  
no.9:29-31 S '60. (NIRA 13:8)

(Runoff)

MASHUKOV, P.M.; TIKUNOVA, V.V.

Analysis and forecasting of seasonal runoff for rivers flowing from  
the mountain ranges of the western Tien Shan. Trudy Sred.-Az.nauch.  
issl.gidrometeor.inst. no.7:32-76 '61. (MIRA 15:3)  
(Tien Shan—Runoff)

MASHUKOV, P.M.; MURZA, L.M.

Flood centers of mountain rivers in Central Asia. Trudy Sred.-Az.  
nauch.-issl.gidrometeor.inst. no.7:77-82 '61. (MIRA 15:3)  
(Soviet Central Asia--Runoff)

ARKHIPOV, V.A.; MASHUKOV, P.M.

Flood flow in the Syr Darya River during stoppage in the flow of  
ice. Trudy Sred.-Az.nauch.-issl.gidrometeor.inst. no.7:83-91 '61.  
(MIRA 15:3)

(Syr Darya River—Flood forecasting)

(Syr Darya River—Ice on rivers, lakes, etc.)

MASHUKOV, P.M.

Flash flood chronicles, their compilation and preliminary generalization. Trudy Sred.-Az.nauch.-issl.gidrometeor.inst. no.7:103-117  
'61. (MIRA 15:3)

(Soviet Central Asia—Floods)

KOZIK, Stefan Mikhaylovich; MASHUKOV, P.M., kand. fiz.-mat. nauk,  
red.; VAYTSMAN, A.I., red.; BRAYNINA, M.I., tekhn. red.

[Calculation of the movement of avalanches] Raschet dvizhenia  
snezhnykh lavin. Pod red. P.M.Mashukova. Leningrad, Gidro-  
meteoizdat, 1962. 74 p. (MIRA 15:9)  
(Avalanches)

MASHUKOV, P.M.; TIKUNOVA, V.V.

Effect of the deformation of the channel of the Amu Darya  
on its level. Trudy Sred.-Az. nauch.-issl. gidrometeor.  
inst. no.13:3-21 '63.

Subjective elements in hydrologic forecastings. Ibid.:35-45  
(MIRA 16:8)

MASHUKOV, P.M.; GOLUBEVA, V.V.

Causes of low water in the lower Amu Darya in the spring  
of 1960. Trudy Sred.-Az. nauch.-issl. gidrometeor. inst.  
no.13:54-61 '63. (MIRA 16:8)



MASHUKOV, P.M.

Analysis of hydrological forecasting methods based on the calculation  
of snow reserves in the mountains. Trudy Sred.-Az.nauch.-issl.  
gidrometeor.inst. no. 17:3-58 '64. (MIRA 17:9)

MASHUKOV, P.M.

Long-range forecasts of the runoff of the Murgab and Tedzhen Rivers.  
Trudy Sred.-Az.nauch.-issl.Gidrometeor.inst. no. 17:90-137 '64.  
(MIRA 17:9)

MASHUKOV, V.I., inzh.

Breaking oil shales with boreholes charges in the chamber system  
of mining. *Izv. vys. ucheb. zav.; gor. zhur.* 6 no.4:50-55 '63.

(MIRA 16:7)

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni  
gornyy institut imeni G.V. Plekhanova. Rekomendovana kafedroy  
burovyyvnykh rabot.

(Oil shales)

(Blasting)

MASHUKOV, V.I., gornyy inzh.; NOVIKOV, A.K., gornyy inzh.; VOLCHENKO,  
~~N.I., gornyy inzh.~~

Using the KZDSh-58 pyrotechnical relay at the Odra-Bash Mine.  
Gor. zhur. no.9:70 S '64. (MIRA 17:12)

1. Institut VostNIGRI, Novokuznetsk.

NOVIKOV, A.K.; MASHUKOV, V.I.; CHERNOV, S.F.; NIKOLAYEV, V.P.;  
VOLODARSKAYA, Sh.G.

Relation of the line of least resistance to the borehole  
diameter in mining operations. Vzyv. delo no.55/12:  
239-244 '64. (MIRA 17:10)

MASHUKOV, V.I.; BULANOV, G.M.; NOVIKOV, A.K.; VOLCHENKO, N.G.

Localizing shock air waves during large-scale blasting.

Met. i gornorud. prom. no.6:51-52 N-D '65.

(MIRA 18:12)

MASHUKOV, V.I., kand.tekhn.nauk

Energy expended in rock breaking by blasting. Izv.vys.  
ucheb.zav.; gor.zhur. 8 no.11:79-82 '65.

(MIRA 19:1)

1. Vostochnyy nauchno-issledovatel'skiy gornorudnyy institut.  
Submitted February 12, 1965.

MASHUKOV, V.I., inzh.; VEDUTIN, V.F., inzh.; KHOKHLOV, S.D., inzh.

Indices of ore breaking in chambers depending on the design  
of borehole charges. Vzryv. delo no.57/14:339-344 '65.  
(MIRA 18:11)

1. Vostochnyy nauchno-issledovatel'skiy gornorudnyy institut.



ACC. NR: AR6030395

(A)

SOURCE CODE: UR/0124/66/000/006/B021/B021

AUTHOR: Mashukov, V. I.

TITLE: Parameters of an air shock wave and a method for reducing its intensiveness in the case of massive underground explosions

SOURCE: Ref. zh. Mekhanika, Abs. 6B157

REF SOURCE: Tr. Vost. n.-i. gornorudn. in-ta i gorn. fak. Sibirsk. metallurg. in-ta, vyp. 5, 1965, 55-61

TOPIC TAGS: shock wave, underground explosion

TRANSLATION: The experiments were conducted under laboratory conditions. Charges weighing from 1 to 5 grams were exploded in a metal pipe 110 mm in diameter and 3 m in length. Wire transmitters and the MPO-2 oscillograph were used to record the propagation velocity of the shock wave. The relation between the cross section of the pipe and the section of the charge changed from 45 to 132. A graph was constructed to show the relation of the propagation time of the front of an air shock wave to the distance to the place of explosion, taking into account the cross section of the development and the weight of the explosive charge. Investigations confirmed the validity of the relation found. After explosion, the propagation time of an air shock wave at a dis-

Cord 1/2

ACC NR: AR5030395

tance of 10-100' diameters fluctuates within the limits 0.005-0.09 sec, and the average propagation rate from 2000 to 500 m/sec. N. Adrianov.

SUB CODE: 20

Card 2/2

KISELEV, L.N., inzh.; MASHUKOV, Ye.V., inzh.

Transistor pulse-type voltage stabilizer. Vest. elektroprom. 33 no.8:  
66-68 Ag '62. (MIRA 15:7)

(Voltage regulators) (Pulse circuits)

VIGDERGAUZ, M.S.; GOL'BERT, K.A.; APANAS'YEV, M.I.; MASHUKOVA, G.A.

Analysis of straight-run gasoline by gas chromatography.  
Neftekhimia 2 no.1:3-8 Ja-F '62. (MIRA 15:5)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i  
organicheskikh produktov, Novokuybyshevskiy filial.  
(Gasoline) (Gas chromatography)

VIGDERGAUZ, M.S.; GOL'BERT, K.A.; AFANAS 'YEV, M.I.; MASHUKOVA, G.A.;  
ZIMIN, R.A.

Analysis of liquid products of pyrolysis and cracking by gas  
chromatography. Neftekhimiia 2 no.3:405-409 My-Je '62.  
(MIRA 15:8)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i  
organicheskikh produktov, Novokuybyshevskiy filial.  
(Petroleum products) (Gas chromatography)

KROPANEV, Yu.S., inzh.; MASHUKOVA, G.V., inzh.

Selecting the optimum thermal conditions for the production of  
polymeric coatings with the method of whirl sintering.

Trudy TSNII MPS no.267:38-45 '63.

(MIRA 16:11)

MASHUKOVA, Zhanguasha Kambulatovna, komсомolka; TORMOZOVA, L., red.;  
NYRKOVA, N., tekhn. red.

[Not for the sake of a record] Ne radi rekorda... Moskva, Izd-vo  
TsK VLKSM "Molodaia gvardiia," 1961. 38 p. (MIRA 14:10)

1. Kolkhoz "Sheker" Leskenskogo rayona Kabardino-Balkarskoy ASSR  
(for Mashukova).  
(Corn (Maize))—Equipment and supplies) (Farm mechanization)

11 A shura, G.P.  
ISUPOV, V.I.; MASHURA, G.P.; SADOVSKIY, V.D.

Development of temper brittleness in steel drawing. Trudy  
Inst. fiz. met. no.18:99-105 '56. (MERA 10:2)

(Steel--brittleness) (Drawing (Metalwork))



SOV/137-58-11-22955

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 161 (USSR)

AUTHORS: Mashura, G. P., Mazayev, G. Ya., Smetanina, A. I.

TITLE: Improvement of the Process for Annealing of Ball-bearing Steel  
(Usovershenstvovaniye rezhimov otzhiga sharikopodshipnikovoy stali)

PERIODICAL: Prom. -ekon. byul. Sov. nar. kh-va Sverdl. ekon. adm. r-na,  
1958, Nr 4, pp 12-17

ABSTRACT: At the im. Serov Kombinat experiments were carried out for studying the effect of the rate of heating on the quality of ShKh15-grade steel for developing an abbreviated process of annealing (A) for production of steel with a uniform distribution of granular pearlite and an  $H_B$  of 207 - 170. As a result of the investigation the A time of the steel was reduced from 47 to 12 hours owing to the introduction of a "low preheat" in which the products of combustion of the three central burners are directed underneath the metal charge. An increase in the height of stacks on the sliding furnace bottom from 250 to 500 mm eliminated the immediate action of the products of combustion on the metal and thus did away with any local overheating and an increase of

Card 1/2

SOV/137-58-11-22955

Improvement of the Process for Annealing of Ball-bearing Steel

the damstone partitions from 700 to 1250 mm eliminated the overheating of the upper layers of the charge. Following is the new A process: The metal is heated to 600 - 790°C in two hours ( ~ 380 degrees/hour), there being practically no difference in the temperature between the top and the bottom of the charge during the whole process; the temperature of A during the final two hours of soaking is raised to 820°, the over-all time of the soaking at 790 - 820° is 6 hours, and that of the cooling is 4 hours.

A. B.

Card 2/2

ISUPOV, V.F., inzh.; MASHURA, G.P., inzh.

New developments in research. Stal' 25 no.7:642 J1 '65. (MIRA 18:7)

ISUPOV, V.F., inzh.; MASHURA, G.P., inzh.; NOSOV, V.A., inzh.

New developments in research. Stal' 25 no.7:665 J1 '65. (MIRA 18:7)

1. MASHUROVSKIY, D.
2. USSR (600)
4. Monuments - Moscow
7. Monument of the founder of Moscow. Mol. kolkh. 19, no. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

1. D. MASHUROVSKIY

2. USSR (600)

4. Cast Iron

7. Cast iron fretwork. Mol. kolkh. 20 no. 1. 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

MASHUROVSKIY, D.

Priceless contribution to the photographic records of culture. Sov.  
foto 22 no.3:44 Mr '62. (MIRA 15:2)  
(Sakharov, Mikhail Alekseevich, 1870-1962)

MASHUR'YAN, V.N.; LIPIN, B.V.; SHKLOVSKIY, V.I.; SUDAKOV, A.I.

Multistage retreatment of converter slags. TSvet. met. 37 no.12:  
19-23 D '64 (MIRA 18:2)



MASHUR'YAN, V.N.; LIPIN, B.V.

Characteristics of the process of converting metallized mattes  
with treatment of ferritic slags. Izv. vys. ucheb. zav.; tsvet.  
met. 8 no.3:39-46 '65. (MIRA 18:9)

1. Severokavkazskiy gornometallurgicheskiy institut, kafedra  
metallurgii tyazhelykh tsvetnykh metallov.

3(4)

AUTHOR:

Mashuta, A. I.

SOV/6-58-10-12/17

TITLE:

On the Accuracy of Relief Representation on Topographical Maps on a Scale of 1 : 10 000 Published by the Central Bureau of Surveying and Cartography (O tochnosti izobrazheniya rel'yefa na topograficheskikh kartakh masshtaba 1 : 10 000, izdannyykh Glavnym upravleniyem geodezii i kartografii)

PERIODICAL:

Geodeziya i kartografiya, 1958, Nr 10, pp 56 - 60 (USSR)

ABSTRACT:

The problem of the accuracy of relief representation on topographical maps on a scale of 1 : 10 000 is of paramount importance in prospecting work and as reconnaissance information of large reservoir projects. This paper gives a description of the topographical and surveying work using 1 : 10 000 maps which can be considerably simplified provided that the accuracy of relief representation is known. The area of the future large reservoirs at the lower and upper course of the Dnepr including the tributaries has been covered in recent years by 1 : 10 000 and 1 : 25 000 scale surveys. Special investigations were employed to determine the accuracy of relief representation. Points in the maps were compared with points located during the technical leveling carried out by

Card 1/2

On the Accuracy of Relief Representation on  
Topographical Maps on a Scale of 1 : 10 000  
Published by the Central Bureau of Surveying and  
Cartography

SOV/6-58-10-12/17

the Ukrainskoye otdeleniye Instituta "Gidroenergoprojekt"  
(**Ukrainian** Department of the "Gidroenergoprojekt" Institute) in  
1954. An analysis of this comparison provided the following  
results: 1) The 1 : 10 000 map, with a contour spacing of  
2.5 m can be used as a topographical basis for the construc-  
tion of profiles of the track axes of protective dams, highways,  
and under certain restrictions concerning relief representa-  
tion, also for the construction of the profiles of the tracks  
of electric transmission lines by indoor work, without resort-  
ing to field measurements. 2) It is possible to project the  
contours of a reservoir with sufficient accuracy on 1 : 10 000  
maps, without field work. 3) The 1 : 5 000 maps can be  
employed for the determination of the lines and grades of  
construction projects without special leveling work. 4) In  
many cases 1 : 10 000 maps can be used without supplementary  
surveys on a large scale. There is 1 table.

Card 2/2

MASH'YANOV, R.V., inzh.; KHVOROSTYANNIKOV, M.D., inzh.

What's new in the wage system. Biul.tekh.inform.po stroi. 5  
no.8:21 Ag '59. (MIRA 12:11)  
(Wages)

AUTHOR: Mash'yanov, V.N. (Chief Engineer) .130-3-4/22  
TITLE: Ways of accelerating blast-furnace repairs. (Meropriyatiya po uskoreniiyu remontov domennykh pechey).  
PERIODICAL: "Metallurg" (Metallurgist) 1957, No 37, pp. 8-10. (U.S.S.R.)  
ABSTRACT: Details are given of the organisation and execution of relining and repairs on No.2 blast furnace (930 m<sup>3</sup> useful volume) at the Chelyabinsk Metallurgical Works. Before repairs were started all materials were assembled and sorted, equipment was prepared and a detailed work schedule constructed. On August 17 the furnace was allowed to empty itself to a level 1 m above tuyere level. A large scaffold (300 m<sup>3</sup>) was found some distance below the throat armouring, which collapsed when the charge descended. To remove the debris and remaining charge 1.8 x 1.7 and 1.8 x 3.0 m openings were cut out in the tuyere and bosh areas, respectively. The lining was broken with pneumatic drills operated from a hoist which could move up and down inside the furnace. The rubble was removed by a scraper mechanism. The tuyere-zone and bosh coolers were removed with the aid of a motor winch. The demolition took six days.

Card 1/2

The tuyere-zone and bosh coolers were installed with the aid of a 360-degree rotation crane, being passed into the furnace by trolleys on ramps: the work took 2 days and 4 hrs. The repairs to the shell, the tuyere-zone, the bosh and the stack as well as other work proceeded simultaneously. The casing of the down-

Ways of accelerating blast-furnace repairs. (Cont.) 130-3-4/22

comers was repaired from a suspended platform moved by a motor winch. The bricks for the relining were transported by a series of belt-conveyors, and a multi-storey platform-assembly was suspended for the work in the furnace. An air-hardening fireclay-clay-alumina-waterglass mortar was used for the stack brickwork, enabling a high rate of bricklaying (420 m<sup>3</sup> of stack lining was laid in 4 days 8 hrs). For the tuyere-zone and bosh a fire-clay-alumina mortar was used and the work took 1 day 22 hrs.

The measures described are recommended for general use and a reinforcement of the top structure to facilitate repairs on the charging gear is proposed. There are 3 diagrams.

ASSOCIATION:

Card 2/2

Chelyabinsk Construction Office of the "Uralsdomnaremont" trust. (Stroyupravleniya Chelyabinskogo stroy-upravleniya tresta "Uralsdomnaremont").

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78042  
SOV/130-60-3-11/23

AUTHOR: Mash'yanov, V. N.

TITLE: Sliding Assembled Unit of Open-Hearth Furnace With Refractory Lining

PERIODICAL: Metallurg, 1960, Nr 3, pp 15-16 (USSR)

ABSTRACT: In 1959, during overhauling repairs, a method of sliding the assembled unit of the upper part of the furnace with previously installed refractory lining was used at the Chelyabinsk Pipe-Rolling Plant (Chelyabinskiy truboprokatnyy zavod). The upper part was assembled on the pouring bay alongside the operating furnace and pushed into place over the special metal track. Accuracy of assembling was controlled by lightened steel cables and control indicators. The whole process of sliding takes 1 1/2 hr. The new method decreased time required for repairs by 5 days. There is 1 figure.

ASSOCIATION: Ural Branch of the Trust for Overhaul of Blast and Open-Hearth Furnaces (Chelyabinskoye stroyupravleniye tresta "Uralsdomnaremont")

Card 1/1

EYGELES, M.A.; MASH'YANOVA, A.V.

Rate and selectivity of ilmenite flotation. Obeg. rud. 3 no.3:8-13  
'58. (MIRA 12:1)

(Flotation) (Ilmenite)



(dis)  
MASH'YANOVA, A.V., Cand Tech Sci → "Studies on ilmenite flo-  
tation." Mos, 1959. 21 pp (Min of Geology and Conservation of  
Mineral Resources ~~of the~~ USSR. All-Union Scientific Research Inst  
of Mineral Raw Material~~s~~), 250 copies (KL,27-59, 120)

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EYGELES, M.A., ~~prof. S.I. MITROFANOV, 1960~~

Reply to Professor S.I. Mitrofanov's letter "Speed and  
selectivity of the flotation of ilmenite." Obog. rud 5  
no.1:54-55 '60. (MIRA 14:8)

(Flotation) (Ilmenite)  
(Mitrofanov, S.I.)

AKERMAN, Karol, prof. dr; HOFFMANN, Przemyslaw M.; ZABLOTNY, Wladyslaw, dr;  
NOWAK, Maciej, mgr dr; OGLAZA, Jan, mgr; MASIAK, Aleksander, mgr inz.

Tracing of material streams in kilns with fire bridge. Rudy i metale  
8 no.2:53-54 F '63.

MASIAK, Henryk, inz.; HAJDUK, Henryk

Two more voices in the discussion on organization and economics  
of the capital investment process. Przegl techn 85 no.52:5  
27 D '64.

MASIAK, Marek

A case of anesthetic melancholia. Neurol. naurochir. psychiat.  
Pol. 15 no.2:337-338 Mr-Apr '65.

1. Z Kliniki Chorob Psychiczych AM w Lublinie (Kierownik:  
prof. dr. M. Kaczynski).

*MASIAK, MICHAL*

KUBICZ, Josef; MASIAK, Michal

Observations on therapeutic action of vegetable oils following thermal reactions with metallic manganese and calcium. Acta Polonica pharm. 12 no.1:17-21 1955.

(OILS,

linseed oil, eff. of heat & reaction with metallic manganese & calcium)

(CALCIUM, effects,

on linseed oil. ther. value after reaction with manganese & calcium & heat treatment)

(MANGANESE, effects,

on linseed oil, ther. value after reaction with manganese & calcium & heat treatment)

GRANDE, Josef; MASIAK, Michal

Determination of diastase in urine containing bile pigment  
using Wohlgemuth's method. Polski tygod. lek. 11 no.10:  
451-455 5 Mar 56.

1. Z Pracowni Klinicznej Wojskowego Szpitala Klinicznego,  
Lodz, ul. Zeromskiego 113.

(CARBOHYDRASES,

diastase in urine, determ. in presence of bile pigments,  
Wohlgemuth's method (Pol))

(URINE,

diastase, determ. in presence of bile pigments,  
Wohlgemuth's method (Pol))

(BILE PIGMENTS, in urine,

determ. of diastase in presence of pigments,  
Wohlgemuth's method (Pol))

EXCERPTA MEDICA Sec.2 Vol.10/7 Phy.Biochem. July 57

2895. MASIAK M., Łódź, ul. Zeromskiego 113. Wykrycie ołowiu w kamieniach nerkowych wydalonych w przebiegu choroby Recklinghausena *Presence of lead in renal calculi eliminated in Recklinghausen's disease of bone* Pol. Tyg. lek. 1956, 11/40 (1708—1710)

Renal and urinary calculi from a 40-year-old woman with Recklinghausen's disease of bone were examined by spectral analysis. In addition to Ca and Mg phosphates, they contained Pb, Mn and Si. The Pb was presumably derived from breakdown of the bone tissue in which it had been stored as a result of occupational exposure (the patient worked in a printing shop). This is further evidence of the formation of renal calculi from minerals liberated by the destruction of bone.



MASIAK, MICHAL

✓ Introducing metals into vegetable oils by means of electrical discharges of direct current. Medicinal application of resulting products. Józef Kubicz, Michal Masiak, and Pawel Jan Nowacki. *Acta, Polon. Pharm.* 13, 139-45 (1956) (English summary).—Mg was diffused into linseed oil (I) from charged Mg electrodes. After the adsorbed Mg was sepd. from I, the I showed increased sapon. and ester nos., and a reduced iodine no. Zn, Te, Se, Co, Ca, and Al, were introduced similarly. The tests with Zn, Te, Co, and Mg resulted in highly metallized I. The I-contg. dispersed Mg had healing properties for wounds. P. Dreyfuss

*MW*

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SEGAL, Pawel; RUSZKOWSKI, Marian; BERGER, Stanislaw; MASIAK, Michal

Abortive Wilson's syndrome with dark adaptation disorders.  
Klin. oczna 26 no.4:379-387 1956.

1. Z Oddz. Oczn. C.W.S.K.: Ordynator doc. dr. P. Segal.  
Z Klin. Int. Pol. A.M. w Lodzi: Kierownik doc. dr. A. Himmel.  
Z Dzialu Higieny Zywienia P.Z.H.: Kierownik prof. dr.  
A. Szczygiel, 1 z Laborat. Klin. C.W.S.K.: Kierownik dr.  
J. Grande, Warszawa ul. J. Dabrowskiego 77, m. 27.  
(HEPATOLENTICULAR DEGENERATION, compl.  
dark adaptation disord. caused by abortive Wilson's dis.  
(Pol))  
(NIGHT BLINDNESS, etiol. & pathogen.  
same)

MASIAK, Michal; GRADZINSKI, Andrzej; SIERAWSKI, Stanislaw

Colorimetric determination of copper in urine. Chem anal 5 no.5:  
763-768 '60. (KEAI 10:9)

1. II Klinika Chirurgiczna Akademii Medycznej, Wroclaw. Kierownik  
Kliniki: Prof. Dr. Wiktor Bross.

(Colorimetry) (Copper) (Urine)

HADYDON, Boleslaw; MASIAK, Michal; CICHOCKI, Wacław

Pathogenic role of dehydrogenized fatty acids and biotin in certain diseases. Polski tygod. lek. 15 no. 9: 311-315 29 V '60.

1. Z Ambulatorium Pediatrycznego Wojskowego Szpitala Okręgowego we Wrocławiu.

(BIOTIN defic.)

(FATTY ACIDS defic.)

(ECZEMA etiol.)

(ARTERIOSCLEROSIS etiol.)

OSTACHOWICZ, Mieczyslaw; MASIAK, Michal

Lincomag therapy of marginal blepharitis. Klin.oesma 31 no.1:31-34 '61.

1. Z Oddzialu Okulistycznego Szpitala Marynarki Wojennej.

(VITAMIN P ther) (EYELIDS dis)

MASIAK, Michal; WENDER, Mieczyslaw

Urinary excretion of some trace elements in hepatolenticular degeneration.  
Neurol. neurochir. psychiat. pol. 12 no.5:647-650 '62.

1. Z II Kliniki Chirurgicznej AM we Wroclawiu. Kierownik: prof. dr  
W. Bross i z Kliniki Neurologicznej AM w Poznaniu. Kierownik: prof.  
dr A. Dowzenko.

(TRACE ELEMENTS)

(HEPATOLENTICULAR DEGENERATION)

BROSS, Wiktor; KOCZOROWSKI, Stefan; BADER, Otton; BROSS, Tadeusz;  
SAMSONOWICZ, Z.; MASIAK, M.; WRZLEWICZ, Wladyslaw; SLOWIKOWSKI,  
Jan

Our observations on extracorporeal circulation with the use of the  
Kay-Cross apparatus. Pol. przegl. chir. 34 no.7:693-705 '62]

1. Z II Kliniki Chirurgicznej AM we Wroclawiu Kierownik: prof.  
dr W. Bross.

(HEART MECHANICAL)

MAIAK, Michal; PRZESTALSKI, S.; GRADZINSKI, A.

Measurement of the degree of hemolysis and of the phosphorus level in studies on the penetration of phosphate ions into the erythrocytes. Acta physiol. pol. 14 no.5:557-560 3-0'63.

1. Z II Kliniki Chirurgicznej AM we Wroclawiu; kierownik: prof.dr. W.Bross.

\*



MASIAK, Michal; GRADZINSKI, Andrzej; SIERAWSKI, Stanislaw

Practical method for the rapid determination of the degree of  
blood hemolysis. Pol. tyg. lek. 18 no.47:1764-1766 18 N°63.

1. Z II Kliniki Chirurgicznej AM w Wroclawiu; kierownik: prof.  
dr. Wiktor Bross.

\*

MASIAK, Michal; GRADZINSKI, Andrzej; HITER, Aniela

Some biochemical changes and behavior of the acid-base equilibrium in preserved blood. Pol. arch. med. wewn. 33 no.6:645-648 '63.

1. Z II Kliniki Chirurgicznej Akademii Medycznej we Wroclawiu  
Dyrektor: prof. dr med. W. Bross.  
(BLOOD PRESERVATION) (ACID-BASE EQUILIBRIUM)  
(HEMOLYSIS) (POTASSIUM)  
(BLOOD CHEMICAL ANALYSIS)

ACCESSION NR: AP4029530

P/0056/64/015/001/0085/0092

AUTHOR: Dorobisz, Tadeusz (Dorobish, T.) (Docent, Doctor); Przestalski, Stanislaw (Przestalski, S.) (Assistant Professor, Doctor); Masiak, Michal (Masyak, M.); Bielinski, Edward (Belin'ski, Ye.); Gradzinski, Andrzej (Gradzinski, A.)

TITLE: Effect of cobalt 60 gamma radiation on red blood cells from a human-blood bank

SOURCE: Acta physiologica polonica, v. 15, no. 1, 1964, 85-92

TOPIC TAGS: blood cell, red blood cell, blood bank, human blood, gamma radiation, cobalt, cobalt 60, phosphate ion, hemoglobin content, hematocrit index, osmotic resistance, hemolysis, plasma, potassium, irradiated blood, potassium level, sodium, sodium level, inorganic phosphorus

ABSTRACT: Human bank blood was submitted to doses of  $2 \cdot 10^5$  r of gamma rays and was then stored for four weeks. Significant differences in the penetration of phosphate ions into the red blood cells of irradiated and control blood, in hemoglobin content, or in hematocrit indexes were not observed. In irradiated

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ACCESSION NR: AP4029530

blood a slight shift in pH toward the alkaline side and somewhat lower values of  $PCO_2$  were found. After eight days minimal osmotic resistance of the red blood cells of irradiated blood showed complete breakdown, accompanied by marked hemolysis. The most interesting observation is that the levels of potassium in plasma of irradiated blood increased sevenfold 24 hours after irradiation, but further elevation did not occur. In control blood after eight days the potassium level were two times higher than initially, and after four weeks, four times. Sodium levels were lowered in the plasma of both groups of blood in parallel to the elevation of potassium levels. Inorganic phosphorus was increased in proportion to degree of hemolysis, especially in irradiated blood.

ASSOCIATION: Stacja Krwiodawstwa, Wroclaw (Blood Donor Station); Katedra Fizyki WSR (Physics Department, Higher Agricultural School); II Klinika Chirurgiczna; AM, Wroclaw (Surgical Clinic of the Academy of Medicine)

SUBMITTED: 21Mar63

DATE ACQ: 01May64

ENCL: 00

SUB CODE: 18

NO REF SOV: 000

OTHER: 008

Card

2/2

MASTAK, Marek; BERANSKIEWICZ, Ewa

Investigations on the serum and erythrocyte magnesium level  
in early schizophrenia. Przegl. lek. 21 no.9:547-548 '65.

1. Z Kliniki Chorob Psychiczych AM w Lublinie (Kierownik:  
Prof. dr. med. M. Kaczynski).

MASIKOVA, N.I.

Division of Albian-Senoman sediments in the Utesovaya zone of  
the Carpathians based on Foraminifera. Vest. Mosk. un. Ser.  
4; Geol. 18 no. 3:44-48 My-Je '63. (MIRA 16:10)

1. Kafedra paleontologii Moskovskogo universiteta.

*MAS LACZENI, Bogumil*

PECHEREK, Kazimierz; SZCZEPSKI, Olech; MASIAKOWSKI, Bogumil

Pathogenesis of tuberculous meningitis. Polski tygod. lek. 12 no.40:  
1530-1531 7 Oct 57.

1. Z Panstwowego Sanatorium Przeciwgruzliczego dla Dzieci Stassycowska  
w Indwikowie; dyrektor: dr Kazimierz Pecherek; konsultant pediatryczny:  
doc. dr med. Olech Szczepski. adres: Poznan, ul. Magdaleny 14.

(TUBERCULOSIS, MENINGEAL, in inf. and child  
bronchoscopy in)

(BRONCHOSCOPY, in inf. and child  
in tuberc. meningitis)

MASIAKOWSKI, Jerzy, dr farm., adiunkt

Prescription and the modern pharmacist. *Farmacja Pol* 20  
no. 3/4: 109-110 25 F '64.

1. Zakład Farmacji Stosowanej, Akademia Medyczna, Poznań.



MASIAKOWSKI, Jerzy, dr farm.

The pharmacy as a center of research and pharmaceutical  
scientific information. Farmacja Pol 20 no.9/10:345-347  
25 My '64.

MASIAR, E.

Hydraulically and economically suitable solution of locks for the accommodation of ship trains. p. 104.

Vol. 3, no. 1/2, 1955  
VODOHOSPODARSKY CASOPIS  
Bratislava, Czechoslovakia

Source: East European Accession List. Library of Congress  
Vol. 5, No. 8, August 1956

MASTAR, E.; MISUT, O.

Operation of the outlet installations of one of our dams during the flood period. p. 189.

Vol. 3, no. 3/4, 1955  
VODOHOSPODARSKY CASOPIS  
Bratislava, Czechoslovakia

Source: East European Accession List. Library of Congress  
Vol. 5, No. 8, August 1956

MASIAR, E.

Influence of the variations of hydraulic pressure in diverging lateral canals of navigational lock chambers on their filling and emptying. p.10.  
(Vodohospodarsky Casopis, Vol. 5, No. 1, 1957, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

MASIAR, E.

"2d Hydraulic Conference in Bled, Yugoslavia." p.81

VODOHOSPODARSKY CASOPIS (Slovenska akademiavied) Bratislava, Czechoslovakia,  
Vol. 7, no. 1, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959

Uncl.

MASIAR, Ernest, ing.

Some notes of the hydraulic research on canal locks with longitudinal aqueducts. Vodoprivreda Jug 2 no.7/8:138-143 '59. (BEAI 10:1)

1. Institut d'Hydrologie et Hydrotechnique de l'Academie Slovaque des Sciences, Bratislava.

(Locks (Hydraulic engineering))

(Aqueducts)

(Ships)

MASIAR, Ernest, ~~Ph.D.~~, C.Sc.; HUTKA, Vladimir, promovany pedagog

Equations of correlation moments of turbulent flow velocity in two different points. Vodohosp cas 11 no.1:54-64 '63.

1. Ceskoslovenska akademie ved, Ustav hydrologie a hydrauliky,  
Slovenska akademie vied, Bratislava.

MASIAR, Ernest, doc., inz., CSc.

Problem of coefficients of navigation sluice filling and discharging. Vodohosp cas 11 no.2:150-172 '63.

1. Ceskoslovenska akademie ved, Ustav hydrologie a hydrauliky Slovenskej akademie vied, Bratislava.



MASIAR, Ernest, doc., inz., CSc.

Problem of determining the course of correlation moments  
of the pulsation velocity components in singular points  
of an expanded turbulent stream. Vodohosp cas 11 no.3:  
260-276 '63.

1. Ceskoslovenska akademie ved, Ustav hydrologie a hydrauliky,  
Slovenska akademia vied, Bratislava.

MASIAR, Ernest, doc. inz. CSc.

Problem of the turbulence intensity change in straight and curved sections of open channels. Vodohosp cas 12 no.4: 404-418 '64.

1. Institute of Hydrology and Hydraulics of the Slovak Academy of Sciences, Bratislava.

MASIAR, P.

The metabolism of salicylates in the organism. II. Changes of prothrombin time in the course of salicylate therapy. T. R. Niederland, J. Gvozdiák, E. Drixová, P. Masiar, Měřes, and J. Holanová (Ústav všeobecné klinické biochem. SU, Bratislava, Czech.). *Časopis lékařů českých* 93, 616-20(1954) (in Slovakian).—Prothrombin time (I) was estd. in 22 subjects in the course of treatment with Na salicylate. In most cases a small (less than 50%) and transient prolongation of I was observed during the first few days of treatment but disappeared spontaneously in spite of continued administration of salicylate. No simple relation between the level of salicylate in blood and I was observed. Indiscriminate administration of vitamin K during the course of salicylate treatment is not considered to be substantiated. Ivo M. Hala

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Maslar, P.

Metabolic influence of salicylates in the organism. IV. Influence of antirheumatic drugs on hyaluronidase. T. R. Niederland, V. Měř, and P. Maslar (Komenský Univ., Bratishava, Czech.). *Bratislavské Lekárske Listy* 36, Pt. 1, 401-71(1956); cf. *C.A.* 49, 15052c.—Administration of antirheumatic drugs to rabbits brought about inhibition of the spreading activity (I) of testicular hyaluronidase preps. *in vivo*: adrenocorticotropin (0.7 mg.) 88%, phenylmethanolic acid (14 mg.) 82%, Na salicylate (100 mg.) 69%, and cortisone (0.7 mg./kg.) 52%. Physiol. saline (1 ml./kg.) likewise produced an inhibition of 17%, whereas glucose (1 ml. 10% soln./kg.) had an activating influence on I of 57%.  
L. I. Urbánek

MAJIAR, P.

Progress in the studies on protein structure.

p. 214 (Chemie, Vol. 9, no. 2, Apr. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,  
February 1958

MASTAR, P.; ABEL, B.; SOH, P.

"Proteins and amino acids. XXXVIII. Comparison of arginine peptides from partial hydrolyzates of two hemoglobins. In English."

p.1203 (Sbornik Chekhoslovatskikh Khimicheskikh Rabot, Vol. 22, no. 4, Aug. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 8, August 1958

MASTAR, P.; KEIL, B.; SORM, F.

Proteins and amino acids. XXXVIII. Comparison of arginine peptides of partial hydrolysates of two hemoglobins. p. 352. (Chemické Listy, Vol. 51, no. 2, Feb. 1957.)

SO: Monthly List of East European Accession (EEAL) Vol. 6, no. 7, July 1957. Uncl.

MASIAR, P.; KEIL, B.; SORM, F.

Proteins. XLII. Comparison of histidine peptides from a partial hydrolysate of horse and dog hemoglobin.

p. 1728 (Chemicke Listy) VOL. 51, no. 9, Sept. 1957. Praha, Czechoslovakia.

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 1, Jan 1958



MASIAR, P.

"Hemoglobin. I. The question of binding amino acids to the carboxyl end of lysine and arginine in the polypeptic chain of human and horse hemoglobins."

Chemicke Zvesti. Bratislava, Czechoslovakia. Vol. 12, no. 12, Dec. 1958.

Monthly list of East European Accessions (EEAI), IC, Vol. 8, No. 6, Jun 59, Unclas

AUTHORS: Mäsiar, P and Smolnický, T. CZ/8/52(82)/10-25/39  
TITLE: Haemoglobin II. A Note on the Problem of Similarities  
in the Structures of the Protein Component of Horse and  
Human Haemoglobin. Preliminary Communication  
(O hemoglobine.II. K otázke podobnosti v štruktúre  
bielkovinnej zložky ľudskeho a konskeho hemoglobínu)  
PERIODICAL: Chemické Listy, 1958, Vol 52(82), Nr 10, pp 1991-1992  
(Czechoslovakia) + 2 plates.  
ABSTRACT: It was considered that the non-specific hydrolysis of  
haemoglobin by hydrochloric acid was responsible for  
the small number of arginine and histidine peptides.  
Trypsin hydrolysis was chosen because of its  
specificity. Trypsin, purified by repeated  
crystallisation was used at pH 7.5 (30° C, 24 hours).  
Paper chromatography (n-butanol-pyridine-acetic acid-  
water (30:20:6:24) - multiple development (x2) and paper  
electrophoresis (pyridine-acetate buffer; pH 5.6;  
40 V/cm; 2 hours) were used to study the products of  
hydrolysis. The eluates from paper electrophoretograms  
were also prepared for study. Although fairly closely  
related in structure, they differed mainly in those  
peptides containing histidine (Pauly reagent used for

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CZ/8/52(82)/10-25/39

Haemoglobin II. A Note on the Problem of Similarities in the Structures of the Protein Component of Horse and Human Haemoglobin

location). Although there are 33 histidine residues few were found in peptide form in the hydrolysates and it is suggested that they play a role in the formation of the complex with haem. and in the reversible bonding of oxygen in the haemoglobin molecule. There are 4 figures, 11 references, 6 of which are Czech and 5 English.

ASSOCIATION: Biochemický ústav, lékařská fakulta, Komenského univerzita, Košice (Biochemistry Department, Medical Faculty, Komenský University, Košice)

SUBMITTED: April 14, 1958

Card 2/2

MASIAR, Pavel

"On Hemoglobin (V). N-Terminal Amino Acids and the Number of Polypeptidic Chains of Rat Hemoglobin," Bratislava, Chemicke Zvesti, No. 10, Oct 60, p. 717.

Affiliation: Department of Biochemistry, Faculty of Medicine, University of P. J. Safarik, Kosice.